

AMENDED CLAIMS

1. An isolated human protein or an analogue or variant thereof capable of participating in the human PTCH/SHH pathway during embryonic development and/or carcinogenesis, which is essentially comprised of SEQ ID NO: 1.
2. A nucleic acid encoding a protein according to claim 1.
3. An isolated variant of the nucleic acid according to claim 2.
4. An isolated nucleic acid capable of specifically hybridising to a nucleic acid according to claim 2 or 3.
5. A protein according to claim 1 or a nucleic acid according to any one of claims 2-4 for use as a medicament.
6. Use of a protein according to claim 1 or a nucleic acid according to any one of claims 2-4 in the manufacture of a medicament for the treatment of a condition involving tumors, such as BSS.
7. A method of in vitro or in vivo diagnosis, wherein a protein according to claim 1 or a nucleic acid according to any one of claims 2-4 is used.
8. A method of screening wherein a library of suitable candidate compounds is screened for modified drugs using a protein according to claim 1 as a lead compound.
9. A method of synthesis of a modified drug, wherein a protein according to claim 1 is used.
10. A modified drug identified by the method according to claim 8 or synthesized according to claim 9.
11. A vector comprising a nucleic acid according to any one of claim 2-4.
12. A recombinant cell comprising a vector according to claim 11.
13. An antibody which specifically binds to a protein according to claim 1.
14. A recombinant cell expressing an antibody according to claim 13.
15. A kit for the detection of a human PTCH2 gene or polypeptide comprising in a container a molecule selected from the group consisting of a nucleic acid according to any one of claims 2-4, a protein according to claim 1 or an antibody according to claim 13.
16. Use of a nucleic acid according to any one of claims 2-4 in gene therapy.

17. Use of nucleic acid according to any one of claims 2-4 as a probe, a primer or a diagnostic reagent.

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